

WHAT IS CLAIMED IS:

1. Optically superior eyeglasses, comprising:
a frame; and

5 a pair of lenses attached to said frame and positioned over respective ones of the wearer's eyes, each of said lenses defining an optical center and comprising:

a convex front surface having a first radius of curvature; and

10 a concave back surface having a second radius of curvature which is less than the first radius of curvature so as to provide a negative power;

15 said frame being sized and configured such that when positioned upon the wearer's head, the lenses are supported thereby in a manner wherein the normal line of sight of each of the wearer's eyes crosses the back surface of a respective one of the lenses at a selected wrap angle and at a location nasal to the optical center thereof which, in combination with the negative power, induces base-in prism to substantially neutralize the base-out prism induced by the wrap angle.

20 2. The eyeglasses of Claim 1 wherein the wrap angle is greater than about 95 degrees.

3. The eyeglasses of Claim 2 wherein the wrap angle is within the range of about 100 to 120 degrees.

30 4. The eyeglasses of Claim 1 wherein each of the lenses is provided with a negative power in the range of about -0.12 to about -0.25 diopters.

5. The eyeglasses of Claim 4 wherein each of the lenses is provided with a negative power of about -0.25 diopters.

6. The eyeglasses of Claim 1 wherein the location that the line of sight of each of the wearer's eyes crosses the back surface of a respective one of the lenses is about 1.0 cm nasal to the optical center thereof.

5 7. The eyeglasses of Claim 1 wherein each of the lenses is tinted.

8. The eyeglasses of Claim 7 wherein each of the lenses is tinted to block:

100% ultraviolet A;

10 100% ultraviolet B;

100% of visible wavelengths of approximately 380 nanometers through 450 nanometers; and

80% of the total visual light spectrum.

9. The eyeglasses of Claim 7 wherein each of the
15 lenses is tinted to allow:

10% light transmission at 475 nanometers; and

20% light transmission at 500 nanometers.

10. Optically superior eyeglasses, comprising:

20 a pair of lenses positionable over respective ones of the wearer's eyes, each of said lenses defining an optical center and comprising:

a convex front surface having a first radius of curvature; and

25 a concave back surface having a second radius of curvature which is less than the first radius of curvature so as to provide a negative power;

30 said lenses being positionable over respective ones of the wearer's eyes such that the normal line of sight of each of the wearer's eyes crosses the back surface of a respective one of the lenses at a selected wrap angle and at a location nasal to the optical center thereof which, in combination with the negative power, induces base-in prism to substantially

neutralize the base-out prism induced by the wrap angle.

11. The eyeglasses of Claim 10 wherein the wrap angle is greater than about 95 degrees.

5 12. The eyeglasses of Claim 11 wherein the wrap angle is within the range of about 100 to 120 degrees.

13. The eyeglasses of Claim 10 wherein each of the lenses is provided with a negative power in the range of about -0.12 to about -0.25 diopters.

10 14. The eyeglasses of Claim 13 wherein each of the lenses is provided with a negative power of about -0.25 diopters.

15 15. The eyeglasses of Claim 10 wherein the location that the line of sight of each of the wearer's eyes crosses the back surface of a respective one of the lenses is about 1.0 cm nasal to the optical center thereof.

16. The eyeglasses of Claim 10 wherein each of the lenses is tinted.

20 17. The eyeglasses of Claim 16 wherein each of the lenses is tinted to block:

100% ultraviolet A;

100% ultraviolet B;

100% of visible wavelengths of approximately 380 nanometers through 450 nanometers; and

25 80% of the total visual light spectrum.

18. The eyeglasses of Claim 17 wherein each of the lenses is tinted to allow:

10% light transmission at 475 nanometers; and

20% light transmission at 500 nanometers.